

Serial No. 10/552,619

Attorney Docket No. VX052694PCT

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LISTING OF CLAIMS:

1-4. (Canceled)

5. (Previously presented) A pipe connecting structure, comprising:

a plastic coated metal pipe including at least one bead circumferentially protruding from the pipe, the plastic coating on the metal pipe being a nonconductive plastic film, and the at least one bead including bare metal exposed above the nonconductive plastic film; and

a conductive plastic tube, the conductive plastic tube having an end portion with a leading edge, wherein the plastic coated metal pipe and the conductive plastic tube are fused together, and the exposed bare metal of the at least one bead contacts the conductive plastic tube.

6. (Previously presented) The pipe connecting structure according to claim 5, wherein the conductive plastic tube is press fitted about the plastic coated metal pipe.

7. (Previously presented) The pipe connecting structure according to claim 5, wherein a seal member is arranged around the metal pipe, on top of the non-conductive plastic film, and along the length of the plastic coated metal pipe between the exposed bare metal of the plastic coated metal pipe and the fused position of the plastic coated metal pipe and the conductive plastic tube.

8. (Previously presented) The pipe connecting structure according to claim 5, wherein the at least one bead extends around an entire circumference of the plastic coated metal tube.

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9-11 (Canceled)

12. (Previously presented) The pipe connecting structure according to claim 5, further comprising a plastic guide cap arranged on the end of the plastic coated metal pipe, the plastic guide cap having a tapered surface fitting within the conductive plastic tube.

13. (Previously presented) A pipe connecting structure, comprising:

- a metal pipe including at least one bead circumferentially protruding from the metal pipe;
- a nonconductive plastic film coated on an outer surface of the metal pipe at locations other than an upper portion of the at least one bead of the metal pipe, the upper portion of the at least one bead of the metal pipe being exposed through the nonconductive plastic film;
- a seal member arranged around the metal pipe on top of the nonconductive plastic film;
- and
- a conductive plastic tube,

wherein the exposed upper portion of the at least one bead of the metal pipe contacts the conductive plastic tube, and the seal member contacts both the conductive plastic tube and the nonconductive plastic film coating on the metal pipe along a length of the metal pipe adjacent the exposed upper portion of the at least one bead of the metal pipe.

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14. (Previously presented) The pipe connecting structure according to claim 13, wherein the seal member is arranged along the length of the metal pipe between the upper portion of the at least one bead of the metal pipe and an end of the metal pipe.

15. (Previously presented) The pipe connecting structure according to claim 13, wherein the at least one bead of the metal pipe is arranged along the length of the metal pipe between the seal member and an end of the metal pipe.

16. (Previously presented) The pipe connecting structure according to claim 13, wherein the at least one bead extends around an entire circumference of the plastic coated metal tube.

17. (Canceled)

18. (Previously presented) The pipe connecting structure according to claim 13, wherein the at least one bead with the upper portion exposed is larger than another bead circumferentially protruding from a surface of the metal pipe.

19. (Previously presented) The pipe connecting structure according to claim 13, further comprising a plastic guide cap arranged on the end of the metal pipe, the plastic guide cap having a tapered surface fitting within the conductive plastic tube, and a second seal member arranged along the length of the pipe adjacent the at least one bead.